

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):           CAIRNS, James, Anthony;  
                          BERRY, Graham, James;  
                          CALLON, Gary, John;  
                          SMITH, Robert, Dermot

U.S. Serial No.:       Not Yet Known; a CIP application of  
                          PCT/GB02/04086 of August 30, 2002, claiming  
                          priority from GB 0120958.4 of August 30,  
                          2001, GB 0120961.8 of August 30, 2001, and  
                          GB 0120956.8 of August 30, 2001.

Filed                   :       Herewith

For                     :       PROCESS   FOR   MAKING   THIN   FILM   POROUS  
                          CERAMIC-METAL   COMPOSITES   AND   COMPOSITES  
                          OBTAINED BY THIS PROCESS

                          Law Offices of Albert Wai-Kit Chan, LLC  
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                          February 26, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir/Madam:

INFORMATION DISCLOSURE STATEMENT

In accordance with their duty of disclosure under 37 C.F.R. §1.56, Applicants would like to direct the Examiner's attention to the following references which are listed below on Form PTO/SB/08A and PTO/SB/08B (which are attached hereto as **Exhibit A**), and each individual reference further attached as **Exhibit 1** through 9.

1. U.S. Patent No. 5,980,843, November 9, 1999, Fredrik Ahlström Silversand, "Method and Apparatus in Catalytic Reactions" [**Exhibit 1**]
2. U.S. Patent No. 6,303,538, October 16, 2001, Luca Toia, et al., "Process for Producing Metallic Fiber Boards

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Filed : Herewith  
Page : 2

Functionalized by Catalysts and Boards so Produced"  
[Exhibit 2]

3. U.S. Patent No. 6,027,826, February 22, 2000, Pierre L. deRochemont, et al., "Method for making ceramic-metal composites and the resulting composites"  
[Exhibit 3]

4. U.S. Patent No. 5,786,294, July 28, 1998, Wolfgang M. H. Sachler, et al., "Crystalline Mesoporous Zirconia Catalysts Having Stable Tetragonal Pore Wall Structure"  
[Exhibit 4]

5. U.S. Patent No. 5,698,267, December 16, 1997, Karl-Hermann Friese, et al., "Method for Fabricating High-Activity Electrodes for Exhaust Gas Sensors" [Exhibit 5]

6. U.S. Patent No. 4,464,482, August 7, 1984, Alfred J. Bird, et al., "Three Dimensional Interstitial Catalyst Support and Its Manufacture" [Exhibit 6]

7. International Patent Application PCT/US99/24101, October 14, 1999, Applied Materials, Inc., "Post Deposition Treatment of Dielectric Films for Interface Control" [Exhibit 7]

8. Deki, Shigehito et al. Preparation and Characterization of Au-Dispersed TiO<sub>2</sub> Thin Films by a Liquid-Phase Deposition Method. Journal of Materials Chemistry, The Royal Society of Chemistry, Cambridge, GB, vol.6, no.12, December 1, 1996, pp. 1879-1882  
[Exhibit 8]

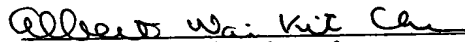
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Filed : Herewith  
Page : 3

9. Tanaka, Yoshimi et al. Preparation of Zirconia and  
Zirconia-Yttria Coating from Metal Alkoxide Solutions.  
Chemical Abstracts, vol.115, no.24, December 16, 1991  
[Exhibit 9]

If a telephone interview would be of assistance in advancing  
prosecution of the subject application, Applicants' undersigned  
attorney invites the Examiner to telephone him at the number  
provided below.

No fee is deemed necessary in connection with the filing of this  
IDS. However, if any additional fee is required, authorization is  
hereby given to charge the amount of any such fee to Deposit  
Account No. 50-1891.

Respectfully submitted,

  
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Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	1	of	2
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**Complete if Known**

Application Number	Not Yet Known
Filing Date	
First Named Inventor	Cairns, James
Art Unit	
Examiner Name	
Attorney Docket Number	

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (# known)	MM-DD-YYYY			
	7	PCT/US99/24101	10-14-1999	Applied		
				Materials		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.**

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STATEMENT BY APPLICANT**

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<b>Application Number</b>	Not Yet Known
<b>Filing Date</b>	
<b>First Named Inventor</b>	Cairns, James
<b>Art Unit</b>	
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	

Sheet 2 of 2

**OTHER PRIOR ART–NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	8	DEKI, Shigehito et al.	
		Preparation and Characterization of Au-Dispersed TiO <sub>2</sub> Thin Films by a Liquid-Phase Deposition Method	
		Journal of Materials Chemistry, The Royal Society of Chemistry, Cambridge, GB	
		vol.6, no.12, December 1, 1996, pp. 1879-1882	
	9	TANAKA, Yoshimi et al.	
		Preparation of Zirconia and Zirconia-Yttria Coating from Metal Alkoxide Solutions.	
		Chemical Abstracts, vol.115, no.24, December 16, 1991	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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